

BEST AVAILABLE COPY

FABRICATION OF STACKED MICROELECTRONIC DEVICES

ABSTRACT

Manufacture of stacked microelectronic devices is facilitated by producing subassemblies wherein adhesive pads are applied to the back surfaces of a plurality of microelectronic components in a batch fashion. In one embodiment, an adhesive layer is applied on a rear surface of a wafer. A plurality of spaced-apart adhesive pads are defined within the adhesive layer. Each adhesive pad may cover less than the entire back surface area of the component to which it is attached. A mounting member (e.g., dicing tape) may be attached to the adhesive layer and, in some embodiments, the adhesive layer may be treated so that the mounting member is less adherent to the adhesive pads than to other parts of the adhesive layer, easing removal of the adhesive pads with the microelectronic components.